



Recent Developments in Solid-State Hydrogen Storage and Hydrogen Storage Systems

Guest Editor:

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Deadline for manuscript submissions:

closed (17 July 2019)

Message from the Guest Editor

The ever-increasing demand for energy throughout the world, coupled with the depletion of fossil fuels and the pollution problems due to their use, firmly calls for a clean and sustainable energy system. In the last decades, interest in the use of renewable sources for the production of energy has been increasing. Furthermore, the intermittent character of these sources and the need to shift the transport sector away from oil as soon as possible makes urgent the development of high capacity storage cells characterized by quick release times, suitable for practical applications. Among the solutions proposed until now, chemical energy storage by means of hydrogen, the clean energy carrier par excellence, will be addressed in this Special Issue, which is focused on the latest findings regarding innovative materials for solid-state hydrogen storage and hydrogen storage systems and recent applications of hydrides in the catalysis and energy storage field...





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